

Anti bacterial potential of botanicals against BLB disease of rice: Evaluation of Botanicals against X. oryzae pv.oryzae Causing Bacterial Leaf Blight ... and Characterization of Bioactive Compounds



The present study was conducted to investigate the antimicrobial activity of different plant species extracts through in-vivo and in-vitro assays, and to isolate, purify and characterize the bioactive compounds exhibiting maximum anti-bacterial activity against Xanthomonas oryzae Pv. oryzae. A total of 387 aqueous and non-aqueous plant extracts were screened for antibacterial susceptibility test through hole plate diffusion method. showed maximum efficacy against BLB disease of rice further evaluated through detached leaf, glass house and field assays. The plant extracts showing high antibacterial activity were further screened for bioactive compounds through chromatographic techniques and try to find their chemical structure. The present findings suggest that botanicals can effectively control BLB disease both in-vitro and in-vivo however, further studies or scaling up is needed.

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